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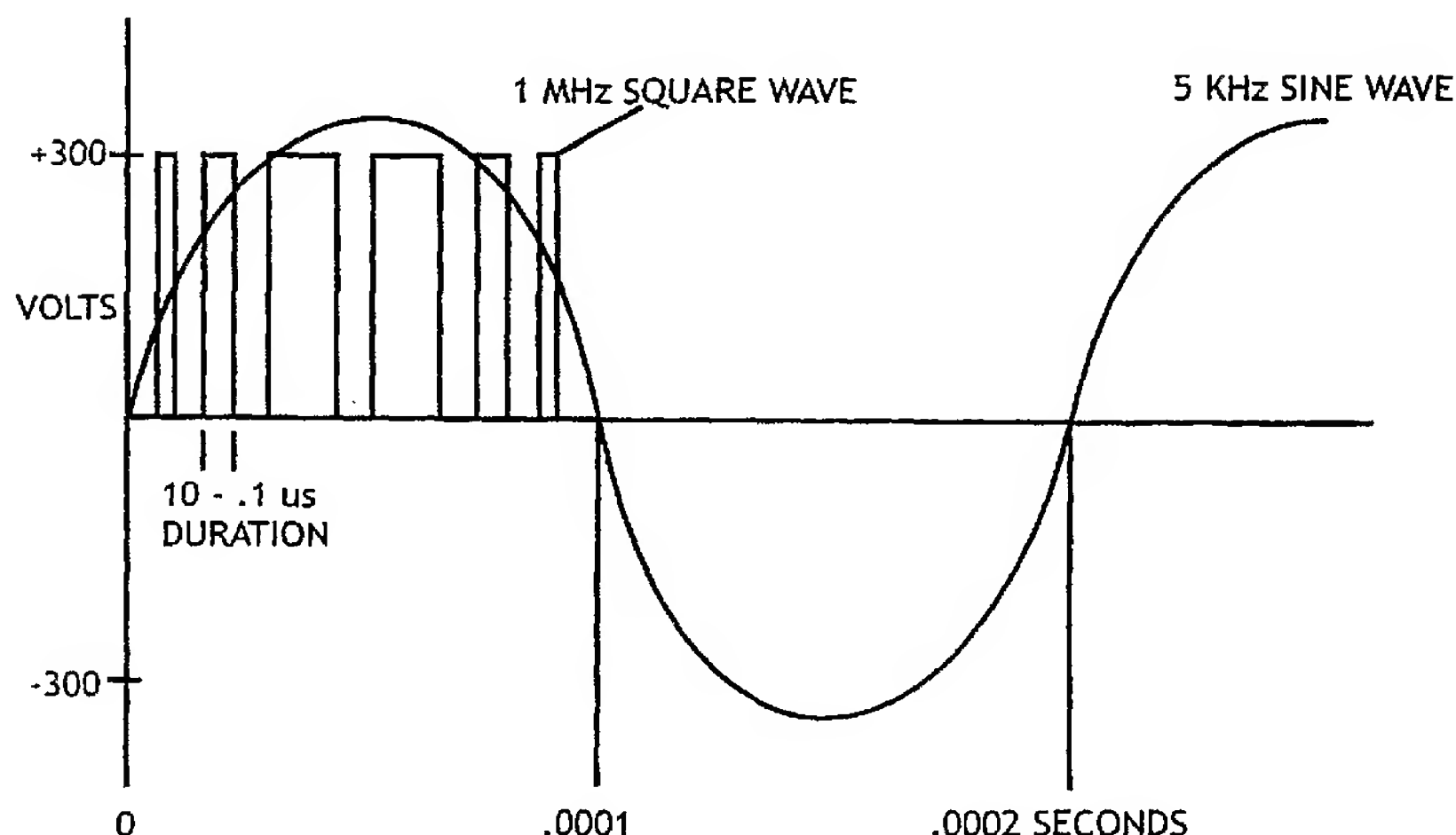
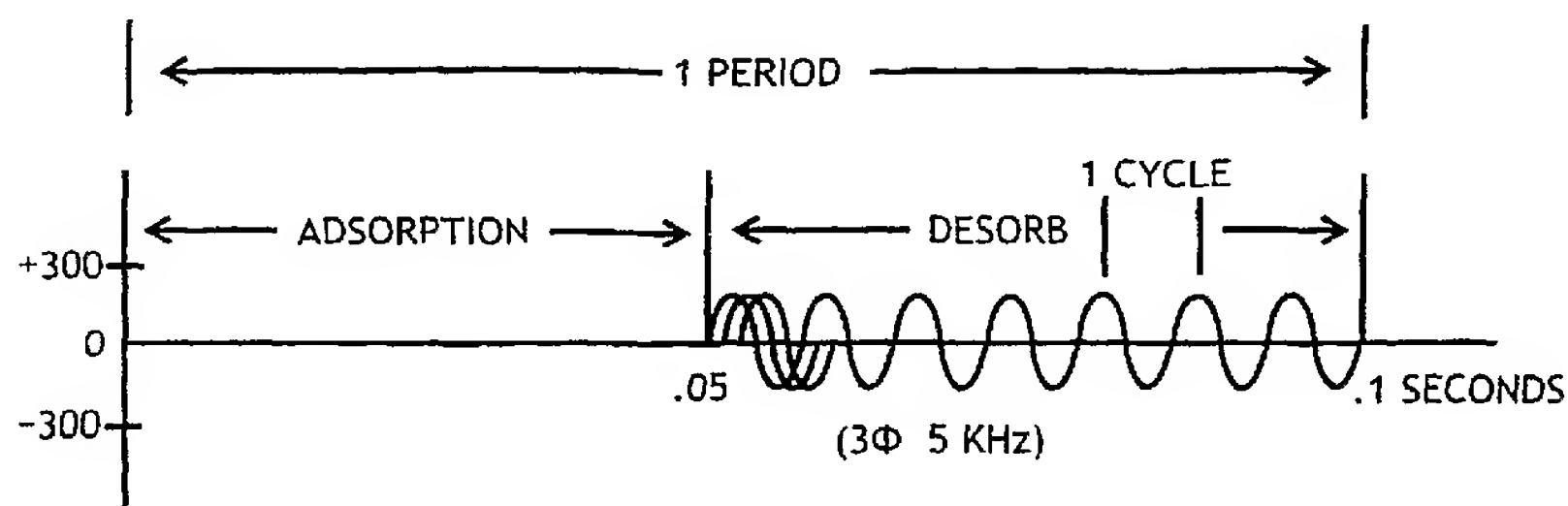
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[Continued on next page]

(54) Title: SORPTION METHOD, DEVICE, AND SYSTEM



(57) Abstract: The invention provides methods, systems, and devices for carrying out sorption (adsorption and absorption) processes using electric fields and electric currents to effect desorption and electrokinetically biasing desorbed materials, *inter alia*, for separation, purification, reaction, heating, cooling, refrigeration, heat pump, and/or vacuum pump processes.



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